Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

(1) # EC-TYPE-EXAMINATION CERTIFICATE

(Translation)

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres - **Directive 94/9/EC**

(3) EC-type-examination Certificate Number:

PTB 03 ATEX 1187

(4) Equipment: Surface-mounting thermostat, type ATH-EXx-..

(5) Manufacturer: JUMO GmbH & Co. KG

(6) Address: Moltkestrasse 13-31, 36039 Fulda, Germany

(7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report PTB Ex 04-13196.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50014:1997 + A1 + A2 **EN 50018: 2000** **EN 50019: 2000**
EN 50281-1-1:1999

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-type-examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the equipment shall include the following:

II 2 G/D **EEx ed IIC T5 or T6** **IP65 T95°C or T80°C**

Zertifizierungsstelle Explosionsschutz
By order:

gez. Dr.-Ing. U. Klausmeyer
Regierungsdirektor

Braunschweig, 6 February 2004

3 **pages, correct and complete as regards content.**
By order:

Dr.-Ing. Klausmeyer
Direktor und Professor

Braunschweig, 16. October 2006

(13) # S C H E D U L E

(14) ## EC-TYPE-EXAMINATION CERTIFICATE PTB 03 ATEX 1187

(15) Description of equipment

The surface-mounting thermostat, type ATH-EXx-.. , is used for thermal control purposes.

Technical data

Rated voltage, max.	250 V
Rated current, max.	2 A (based on AC15) *
Admissible ambient temperature	+40°C for T6
	+55°C for T5

* Provided the making and breaking capacities defined in the relevant regulations are met, rated values other than those specified above are acceptable and will be defined by the manufacturer on the basis of the operating mode, utilisation category, etc.

(16) Test report PTB Ex 04-13196

(17) Special conditions for safe use

None

Additional notes for installation and operation

1. Surface-mounting thermostat, type ATH-EXx-..-F (with fixed switching point):

   When used as a safety device for explosion protection in compliance with EU Directive 94/9/EC (appendix II, clause 1.5), the device has to be subjected to a performance test as set forth in the relevant regulations.

   Additional measures (e.g. calculation, thermal routine testing) must be taken to document that the factory-set switching point will prevent temperatures from rising beyond the limiting temperature. This shall be done with due regard to local and operating conditions, e.g.:

   - sensor geometry and thermal coupling
   - max. ambient temperature
   - max. product temperature.

2. Surface-mounting thermostat, type ATH-EXx-.. (without fixed switching point):

   When used as a safety device for explosion protection in compliance with EU Directive 94/9/EC (appendix II, clause 1.5), the device has to be subjected to a performance test as set forth in the relevant regulations.

   The switching point must be determined by the installer in routine tests, and adequate measures must be taken to prevent the switching point from being changed. This shall be done with due regard to the following conditions:

   - sensor geometry and thermal coupling
   - max. ambient temperature
   - max. product temperature.

3. The connecting cable must be of the permanently wired type.

4. The installer/manufacturer must be informed of these instructions in an adequate form.

(18) Essential health and safety requirements

Met by compliance with the afore-mentioned Standards.

Zertifizierungsstelle Explosionsschutz
By order:

gez. Dr.-Ing. U. Klausmeyer
Direktor und Professor

Braunschweig, 6 February 2004

3 **pages, correct and complete as regards content.**
By order:

Dr.-Ing. Klausmeyer
Direktor und Professor

Braunschweig, 16. October 2006